

## CLAIMS

What is claimed is:

1        1.     A bolt-keeper toilet flange comprising:

2                a toilet-fastener plate having at least one bolt-head bracket articulated  
3 to hold a toilet-bolt head;

4                the bolt-head bracket having a bolt-shank opening on a bolt-head side  
5 of the toilet-fastener plate for positioning the toilet-bolt head in the bolt-head bracket  
6 with a toilet-bolt shank held uprightly from the toilet-fastener plate in a  
7 predetermined place for attachment of a toilet bowl to the toilet bolt with a toilet-bolt  
8 nut screwed onto the toilet-bolt shank; and

9                floor-bolt apertures which extend through the toilet-fastener plate on  
10 arcuately opposite sides of the bolt-head bracket for receiving floor-bolt shanks of  
11 floor bolts inserted downwardly through the floor-bolt apertures and for retaining  
12 floor-bolt heads of the floor bolts proximate a top of the toilet-fastener plate for  
13 bolting the toilet-fastener plate to a floor predeterminedly about a toilet-drain  
14 aperture in the floor.

1        2.     The bolt-keeper toilet flange of claim 1 wherein:

2                the toilet-fastener plate includes an arcuate plate having a predetermined  
3 arcuate length.

1        3.     The bolt-keeper toilet flange of claim 2 wherein:

2                the arcuate plate has an arcuate length of predeterminedly proximate  
3 two inches, a width of predeterminedly proximate three-fourths of an inch and a  
4 thickness of predeterminedly proximate one-sixteenth of an inch.

1           **4.**    The bolt-keeper toilet flange of claim 1 wherein:

2                   the bolt-head bracket includes a bracket entry that is articulated to  
3 receive the toilet-bolt head and the toilet-bolt shank radially from a predetermined  
4 entry edge of the fastener plate; and

5                   the bolt-head bracket includes an end wall opposite the bracket entry to  
6 prevent passage of the toilet-bolt head through the bolt-head bracket.

1           **5.**    The bolt-keeper toilet flange of claim 4 wherein:

2                   the entry edge of the fastener plate is an arcuately outside edge of the  
3 fastener plate.

1           **6.**    The bolt-keeper toilet flange of claim 4 wherein:

2                   the entry edge of the fastener plate is an arcuately inside edge of the  
3 fastener plate.

1           **7.**    The bolt-keeper toilet flange of claim 1 wherein:

2                   the floor-bolt apertures are arcuate and have aperture lengths that are  
3 equal to a predetermined plurality of diameter lengths of the floor bolts.

1           **8.**    The bolt-keeper toilet flange of claim 1 wherein:

2                   the toilet-fastener plate includes a connector plate with an arcuate  
3 extension of predeterminedly proximate 90 degrees, a width of predeterminedly  
4 proximate three-fourths of an inch and a thickness predetermined for structure of the  
5 bolt-head bracket.

1           **9.**    The bolt-keeper toilet flange of claim 1 wherein:

2                   the toilet-fastener plate includes a connector plate with an arcuate  
3 extension of predeterminedly proximate 90 degrees, a width of predeterminedly  
4 proximate one-and-one-half inches and a thickness predetermined for structure of the  
5 bolt-head bracket.

1           **10.**   The bolt-keeper toilet flange of claim 1 wherein:

2                   the floor-bolt apertures include a predetermined plurality of circular  
3 orifices at a predetermined arcuate radius.

1           **11.**   The bolt-keeper toilet flange of claim 1 wherein:

2                   the toilet-fastener plate includes a base circumferential plate having a  
3 plate diameter predeterminedly in excess of a diameter of a predetermined toilet-  
4 drain aperture;

5                   the bolt-head bracket including a first bolt-head bracket that is  
6 oppositely disposed diametrically from a second bolt-head bracket; and

7                   the floor-bolt apertures include two series of predetermined pluralities  
8 of the floor-bolt apertures that are oppositely disposed circumferentially at  
9 predetermined radii from an axis of the base circumferential plate.

1           **12.**   The bolt-keeper toilet flange of claim 11 wherein:

2                   the base circumferential plate includes a width of predeterminedly  
3 proximate one-and-one-half inches and a thickness predetermined for containing an  
4 integral bolt-head bracket and for providing rigidity and duration of materials of  
5 construction of the base circumferential plate.

1           **13.**   The bolt-keeper toilet flange of claim 11 wherein:

2                   the base circumferential plate includes a width of predeterminedly  
3 proximate one inch and a thickness predetermined for containing the integral bolt-  
4 head bracket and for providing rigidity and duration of materials of construction of  
5 the base circumferential plate.

1           **14.**   The bolt-keeper toilet flange of claim 1 wherein:

2                   the toilet-fastener plate includes a supplemental circumferential plate  
3 having a plate diameter predeterminedly in excess of a diameter of the  
4 predetermined toilet-drain aperture;

5                   the bolt-head bracket including a first bolt-head bracket that is  
6 oppositely disposed diametrically from a second bolt-head bracket; and

7                   the floor-bolt apertures include four series of predetermined pluralities  
8 of the floor-bolt apertures that are oppositely disposed orthogonally at predetermined  
9 radii from an axis of the supplemental circumferential plate.

1           **15.**   The bolt-keeper toilet flange of claim 14 wherein:

2                   the supplemental circumferential plate includes a width of  
3 predeterminedly proximate one-and-one-half inches and a thickness predetermined  
4 for supporting supplemental bolt-head bracket and for providing rigidity and  
5 duration of materials of construction of the supplemental circumferential plate.

1           **16.** The bolt-keeper toilet flange of claim **14** wherein:

2                   the supplemental circumferential plate includes a width of  
3           predeterminedly proximate one inch and a thickness predetermined for supporting  
4           the supplemental bolt-head bracket and for providing rigidity and duration of  
5           materials of construction of the supplemental circumferential plate.

1           **17.** The bolt-keeper toilet flange of claim **1** wherein

2                   the bolt-head bracket includes the integral bolt-head bracket; and  
3                   the integral bolt-head bracket including walls that are integral with  
4           material of construction of the toilet-fastener plate.

1           **18.** The bolt-keeper toilet flange of claim **1** wherein

2                   the bolt-head bracket includes the supplemental bolt-head bracket; and  
3                   the supplemental bolt-head bracket includes walls that are supplemental  
4           to and superimposed onto material of construction of the toilet-fastener plate.

1           **19.** A bolt-keeper toilet flange comprising:

2                   an arcuate plate having at least one bolt-head bracket articulated to hold  
3           a toilet-bolt head;

4                   the bolt-head bracket having a bolt-shank opening on the bolt-head side  
5           of the toilet-fastener plate for positioning the toilet-bolt head in the bolt-head bracket  
6           with a toilet-bolt shank held uprightly from the toilet-fastener plate in a  
7           predetermined place for attachment of a toilet bowl to the toilet bolt with a toilet-bolt  
8           nut screwed onto the toilet-bolt shank;

9 floor-bolt apertures which extend through the toilet-fastener plate on  
10 arcuately opposite sides of the bolt-head bracket for receiving floor-bolt shanks of  
11 floor bolts inserted downwardly through the floor-bolt apertures and for retaining  
12 floor-bolt heads of the floor bolts proximate a top of the toilet-fastener plate for  
13 bolting the toilet-fastener plate to a floor predeterminedly about a toilet-drain  
14 aperture in the floor;

15 the arcuate plate has an arcuate length of predeterminedly proximate  
16 two inches, a width of predeterminedly proximate three-fourths of an inch and a  
17 thickness predetermined for support of the bolt-head bracket;

18 the bolt-head bracket including a bracket entry that is articulated to  
19 receive the toilet-bolt head and the toilet-bolt shank radially from a predetermined  
20 entry edge of the fastener plate; and

21 the bolt-head bracket includes an end wall opposite the bracket entry to  
22 prevent passage of the toilet-bolt head through the bolt-head bracket.

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20. A bolt-keeper toilet flange comprising:

2 a base circumferential plate having a plate diameter predeterminedly in  
3 excess of a diameter of the predetermined toilet-drain aperture;

4 a first bolt-head bracket that is oppositely disposed diametrically from  
5 a second bolt-head bracket on the base circumferential plate;

6 two series of predetermined pluralities of the floor-bolt apertures that  
7 are oppositely disposed circumferentially at predetermined radii from an axis of the  
8 base circumferential plate;

9 the base circumferential plate including a width predetermined for  
10 containing the first bolt-head bracket and second toilet-bowl bracket at  
11 predetermined radial distances from an axis of the base circumferential plate and for  
12 containing the floor-bolt apertures at a predetermined floor-bolt distance from the  
13 axis of the circumferential plate; and

14 the base circumferential plate includes a thickness predetermined for  
15 containing the integral bolt-head bracket and for providing rigidity and duration of  
16 materials of construction of the base circumferential plate.

INVENTOR

  
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Date: FEB. - 26 - 2002